



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

DM-07/03

10/008049

INFORMATION DISCLOSURE STATEMENT

In re Application of: Burton, et al.
Serial No: 10/023,487
Filed: December 18, 2001
Confirmation No: 3646
Title: Composite Vapor Barriers for Use As Safety Nets
in Buildings

Attorney Docket No: VTI-9
Date: July 22, 2003
Art Unit: 1771
Our Account No: 04-1403
Customer No.: 22827

Commissioner for Patents
U.S. Patent and Trademark Office
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Sir:

The following is an Information Disclosure Statement for the captioned patent application, pursuant to 37 CFR Sections 1.56, 1.97, and 1.98.

1. ☒ Attached hereto is:

- a. ☒ A list of materials for consideration per Rule 98(a)(1): 1 page(s)
- b. ☒ A legible copy of each patent, publication, or other item listed per Rule 98(1)(2), unless not required per Rule 98(c) and/or (d) and as indicated on the attached list(s):
4 item(s)
- c. ☐ For each non-English language item listed, pursuant to Rule 98(a)(3), a concise explanation of the relevance thereof as it is presently understood by the individual designated in Rule 56(c) most knowledgeable about the content of such items: _____

☐ Such explanation is provided in the Search Report from a corresponding application enclosed herewith along with any enclosed translation into English.

2. ☒ This Information Disclosure Statement is being filed [CHECK ONE]:

- a. ☐ WITHIN THREE MONTHS of the application filing date, national stage date of entry, or along with or after a request for continued examination, OR BEFORE the mailing date of a first Office Action on the merits, which ever event occurs last, WHEREFORE per Rule 97(b) NO filing fee or Rule 97(e) certificate is required.
- b. ☒ AFTER the time periods of section 2.a above, but BEFORE a Final Action, Notice of Allowance OR an action that otherwise closes prosecution, WHEREFORE PER Rule 97(c) submitted herewith is [CHECK ONE]:
- i. ☐ Certification per Rule 97(e); OR
- ii. ☒ Filing Fee per Rule 17(p)\$180.00
- c. ☐ AFTER a Final Action OR Notice of Allowance, but BEFORE payment of the issue fee, WHEREFORE per Rule 97(d) submitted herewith is:
- i. Certification per Rule 97(e); AND
- ii. Filing fee per Rule 17(p)\$180.00

3. ☐ Rule 97(e) Certification; per Rule 97(e), the undersigned certifying party make the following certification statement [CHECK ONE]:

- a. ☐ That each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement; OR
- b. ☐ That no item of information contained in this Information Disclosure Statement was cited in a foreign patent office in a counterpart foreign application and to the knowledge of the undersigned after making a

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reasonable inquiry, was known to any individual designated in Rule 56(c) more than three months prior to the filing of this statement.

CERTIFYING PARTY (if different from bottom signature; omission here indicates that certification is being made by signer per signature below).

Name: _____

Signature: _____

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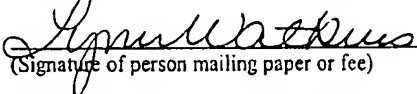
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| | | |
|---|--|-----------------------------|
| (Rev. 5/92) Information Disclosure Statement List By Applicant Under 37 CFR Section 1.98(a) (1) (Use several sheets if necessary) | Attorney Docket Number VTI-9 | Serial Number 10/023,487 |
| | Applicant Burton, et al. | |
| | Filing Date: December 18, 2001 Confirmation No.: 3646 | Group 1771 |

NOTE: If no indication is made in the column marked "COPY NOTE," the required legible copy of the corresponding item is submitted herewith; otherwise, a copy is not required and/or not submitted, for the following reason(s) [corresponding reason number is listed in "COPY NOTE" column]"

- (1) This item is cumulative, per Rule 98(c)
- (2) A copy of this item was previously cited by or submitted to the U.S. Patent and Trademark Office in:
 USPN _____, filed _____, or
 USPN _____, filed _____;
 Relied on under 35 U.S.C. Section 120, per Rule 98(d)
- (3) Both reasons (1) and (2) apply
- (4) No legible complete copy is possessed, in custody of controlled, or readily available

| U.S. PATENT DOCUMENTS | | | | | | | | | |
|-----------------------|---------------|---------------|--|--|--|--|--|------------|-----------|
| EXAMINER INITIALS | PATENTEE NAME | PATENT NUMBER | | | | | | ISSUE DATE | COPY NOTE |
| | | | | | | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | | | | |
|--------------------------|---------|-----------------|------------------|-------------|----|-----|-----------|--|--|
| EXAMINER INITIALS | COUNTRY | DOCUMENT NUMBER | PUBLICATION DATE | TRANSLATION | | | COPY NOTE | | |
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*"NO" means that no copy of an English language translation is within the possession, custody, or control of, or is readily available to any individual designated in Rule 56(c).

| EXAMINER INITIALS | OTHER DOCUMENTS | COPY NOTE |
|---|---|-----------|
| | Specify author (if any), Title, Pertinent Pages, Date & Place of Publication | |
| | Lamtec® Corporation; ARENASIELD Foil/Fiberglass-Polyester Blend Fabric | |
| | Lamtec® Corporation; GYMGUARD Polypropylene/Fiberglass-Polyester Blend Fabric | |
| | STANDARD Suspension Fabric, "NEW" Std. Fabric for 2002, Simple Saver System® | |
| | Purlin Glide™ Vapor Retarder Standard Duty (.02 Perm) | |
| EXAMINER | DATE CONSIDERED | |
| Examiner: initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant. | | |



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ARENASHIELD

FOIL / FIBERGLASS-POLYESTER BLEND FABRIC

| FACING COMPOSITION | DESCRIPTION | VALUES (ENGLISH) | VALUES (METRIC) |
|--------------------|----------------------------|-------------------------------|-------------------------|
| Foil | Aluminum | 0.0003 inch | 7.6 micron |
| Adhesive | Flame Resistant | | |
| Fabric | Fiberglass/Polyester Blend | 75 lbs / 3000 ft ² | 122 gm / m ² |

| PHYSICAL PROPERTIES | TEST METHOD | VALUES (ENGLISH) | VALUES (METRIC) |
|-----------------------------|-----------------------------------|--|--------------------------------------|
| Basis Weight | Scale | 40 lbs / 1000 ft ² | 195 gm / m ² |
| Permeance (WVTR) | ASTM E96 Procedure A | 0.02 perm (grains/hrft ² in Hg) | 1.15 ng / N's |
| Bursting Strength | ASTM D774 | 250 psi | 17.6 kg / cm ² |
| Puncture Resistance | ASTM C1136 | 550 beach units | 16.4 Joules |
| Tensile Strength | ASTM C1136 | 195 lbs/inch width(MD) 150 lbs/inch width(XD) | 34.1 kn / m (MD) 26.3 kn / m (XD) |
| Caliper / Thickness | Micrometer | 0.006 inch | 152 micron |
| Accelerated Aging | 30 Days @ 95% RH, 120°F (49°C) | No Corrosion No Delamination | No Corrosion No Delamination |
| Low Temperature Resistance | ASTM D1790 -40°F (-40°C) | Remains Flexible No Delamination | Remains Flexible No Delamination |
| High Temperature Resistance | 4 hours @ 240°F (116°C) | Remains Flexible No Delamination | Remains Flexible No Delamination |
| Water Immersion | 24 hours @ 73°F (23°C) | No Delamination | No Delamination |
| Mold Resistance | ASTM C665 | No Growth | No Growth |
| Dimensional Stability | ASTM D1204 | 0.25% | 0.25% |
| Emissivity | ASTM E408 | 0.03 | 0.03 |

| FIRE TESTING | | | | |
|----------------|--------------|-----------------|---------------|-----------------|
| | UL-723 | | CAN ULC-S102M | |
| | Flame Spread | Smoke Developed | Flame Spread | Smoke Developed |
| Foil Exposed | 5 | 5 | 5 | 5 |
| Fabric Exposed | 5 | 5 | 5 | 5 |

Physical Properties based upon statistical averages, Weight / Thickness +/- 10%

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LAMTEC®

CORPORATION

GYM GUARD**POLYPROPYLENE / FIBERGLASS-POLYESTER BLEND FABRIC**

| FACING COMPOSITION | DESCRIPTION | VALUES (ENGLISH) | VALUES (METRIC) |
|---------------------------|----------------------------|-------------------------------|-------------------------|
| White Film | Metallized Polypropylene | 0.0015 inch | 38.1 micron |
| Adhesive | Flame Resistant | | |
| Fabric | Fiberglass/Polyester Blend | 75 lbs / 3000 ft ² | 122 gm / m ² |

| PHYSICAL PROPERTIES | TEST METHOD | VALUES (ENGLISH) | VALUES (METRIC) |
|-----------------------------|-----------------------------------|--|--------------------------------------|
| Basis Weight | Scale | 34 lbs / 1000 ft ² | 166 gm / m ² |
| Permeance (WVTR) | ASTM E96 Procedure A | 0.02 perm (grains/hrft ² in Hg) | 1.15 ng / N's |
| Bursting Strength | ASTM D774 | 250 psi | 17.6 kg / cm ² |
| Puncture Resistance | ASTM C1136 | 650 beach units | 19.4 Joules |
| Tensile Strength | ASTM C1136 | 195 lbs/inch width(MD) 150 lbs/inch width(XD) | 34.1 kn / m (MD) 26.3 kn / m (XD) |
| Caliper / Thickness | Micrometer | 0.007 inch | 178 micron |
| Accelerated Aging | 30 Days @ 95% RH, 120°F (49°C) | No Corrosion No Delamination | No Corrosion No Delamination |
| Low Temperature Resistance | ASTM D1790 -40°F (-40°C) | Remains Flexible No Delamination | Remains Flexible No Delamination |
| High Temperature Resistance | 4 hours @ 240°F (116°C) | Remains Flexible No Delamination | Remains Flexible No Delamination |
| Water Immersion | 24 hours @ 73°F (23°C) | No Delamination | No Delamination |
| Mold Resistance | ASTM C665 | No Growth | No Growth |
| Dimensional Stability | ASTM D1204 | 0.25% | 0.25% |
| Light Reflectance | ASTM C523 | 85% | 85% |

FIRE TESTING

| | UL-723 | | CAN ULC-S102M | |
|----------------|-------------------------|----------------------------|-------------------------|----------------------------|
| | Flame Spread | Smoke Developed | Flame Spread | Smoke Developed |
| Film Exposed | 0 | 30 | 5 | 30 |
| Fabric Exposed | 5 | 40 | 5 | 40 |

Physical Properties based upon statistical averages, Weight / Thickness +/- 10%

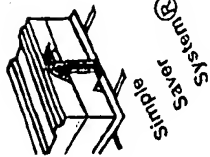
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PURLIN GLIDE™ VAPOR RETARDER STANDARD DUTY (.02 PERM)

Physical Characteristics

| | |
|--|--|
| CONSTRUCTION | HDPE 900X1200 Denier +/- 10% Natural Woven Scrim (8 X 3)PE 1.75/1.1 inch in Wrap & Fill |
| COATINGS | Fire Retardant, Low Density Polyethylene 1.75 mills White (One side) 1.1 mills Gray (One side) |
| COLORS | White (1.75) or Gray (1.1). |
| WEIGHT | 3.2 oz./square yard (ASTM D-1910) |
| TENSILE STRENGTH | 118.8 lbs Warp (ASTM D-751, Grab Method) 73.8 lbs Fill |
| TEAR STRENGTH | 26.3 lbs Warp (ASTM D-751, Tongue Method) 19.5 lbs Fill |
| WATER RESISTANCE | Not Effected |
| BURSTING STRENGTH | 176 PSI (ASTM D-751, Mullen Method) |
| WATER VAPOR TRANSMISSION | 0.02 U.S. Perms-Procedure A, Non-Inverted Method (ASTM E-96) |
| FIRE HAZARD CLASSIFICATION (ASTM E-84 or UL 723) | Class 1 Flame Spread < 25, Smoke Density < 50 |
| TOTAL THICKNESS | 5.6 MILLS +/- 10% (ASTM D-2103) |
| LIGHT REFLECTIVITY/ DISPERSION | Excellent |
| SEAMS | Vapor tight, extrusion welded |
| COLD TEMPERATURE/ FLEXIBILITY | Minus 60°C-Passes |



STANDARD SUSPENSION FABRIC

Water Vapor Transmission Rating .02 grains per hour. Minimum Workability Temperature 60°F below zero. FHC Rating Flame Spread < 25 Smoke Developed < 50

"For True R-Value"

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"NEW" Std. Fabric for 2001

Simple Saver System®

New system will meet OSHA's
through fall protection requirements.



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| Water Immersion | 24 hours @ 73°F (23°C) | No Delamination | No Delamination |
| Mold Resistance | ASTM C665 | No Growth | No Growth |
| Dimensional Stability | ASTM D1204 | 0.25% | 0.25% |
| Emissivity | ASTM E408 | 0.03 | 0.03 |

| FIRE TESTING | | | | |
|----------------|--------------|-----------------|---------------|-----------------|
| | UL-723 | | CAN ULC-S102M | |
| | Flame Spread | Smoke Developed | Flame Spread | Smoke Developed |
| Foil Exposed | 5 | 5 | 5 | 5 |
| Fabric Exposed | 5 | 5 | 5 | 5 |

Physical Properties based upon statistical averages, Weight / Thickness +/- 10%

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| Basis Weight | Scale | 34 lbs / 1000 ft ² | 166 gm / m ² |
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|---------------------|-------------------------|----------------------------|-------------------------|----------------------------|
| | UL-723 | | CAN ULC-S102M | |
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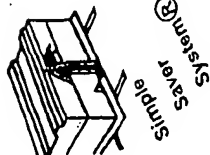
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| BURSTING STRENGTH | 176 PSI (ASTM D-751, Mullen Method) |
| WATER VAPOR TRANSMISSION | 0.02 U.S. Perms-Procedure A, Non-Inverted Method (ASTM E-96) |
| FIRE HAZARD CLASSIFICATION (ASTM E-84 or UL 723) | Class 1 Flame Spread < 25, Smoke Density < 50 |
| TOTAL THICKNESS | 5.6 MILLS +/- 10% (ASTM D-2103) |
| LIGHT REFLECTIVITY/ DISPERSION | Excellent |
| SEAMS | Vapor tight, extrusion welded |
| COLD TEMPERATURE/ FLEXIBILITY | Minus 60°C-Passes |



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**"NEW" Std. Fabric for 2001
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New system will meet OSHA's
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